

AMENDMENTS TO THE SPECIFICATION

Please replace Paragraph 2 on Page 6 of the specification with the following paragraph rewritten in amendment format:

But, depending on the energy of the incident neutrons, the released neutrons have a varying probability cross-section. As a result, the dosimeter has a varying response function or a varying response capability. If neutrons with an energy of about 30 MeV strike the dosimeter, protons whose energy can be detected by the dosimeter **[[5]] 1** are created in the intranuclear cascade occurring during spallation. The energy is so low, however, that the dosimeter 1 does not respond.